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File: DWPI

May 25, 1977

DERWENT-ACC-NO: 1977-47903Y

DERWENT-WEEK: 197727

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**TITLE:** Hygroscopic synthetic fibre woven and knitted fabrics - comprise a blend of synthetic fibre spun yarn and synthetic fibre crimped filament yarn

**PATENT-ASSIGNEE:**

ASSIGNEE	CODE
TELJIN LTD	TEIJ

PRIORITY-DATA: 1975JP-0136368 (November 14, 1975)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 52063475 A	May 25, 1977		000	
JP 83009174 B	February 19, 1983		000	

INT-CL (IPC): D03D 15/00; D03D 25/00; D03D 27/00; D04B 1/16; D04B 21/00; D06M 13/20

ABSTRACTED-PUB-NO: JP 52063475A

**BASIC-ABSTRACT:**

The fabrics are union cloths which consist of 20 to 70, (30 to 50) wt. % of synthetic fibre spun yarn and 80 to 30 wt. % of synthetic fibre crimped filament yarn blended uniformly. The spun yarn is made of staples which show an equilibrium moisture regain of >3 wt. % of 20 degrees C and relative humidity 80%. The filament yarn is made of fibres having an equilibrium moisture regain of <10 wt. % under the same conditions.

The fuzziness of the spun yarn provides the woven and knitted fabrics with a large area of evaporation and gives dry feel to skin. The spun yarn exhibits strong water absorption under capillary phenomenon and conduction of water in one direction. The crimped filament yarn gives stabilised and large water-absorptive interfibre spaces to the fabric. In the weaving and knitting, the two yarns are arranged alternately so that they may be present in every square cm of the woven and knitted fabrics.

The spun yarn is made of polyester, polyacrylonitrile and PVA fibres and the

crimped filament yarn is made of nylon fibre polyamide, polyester and PVA fibres to which hydrophilic monomers have been graft polymerised. 100% synthetic fibre woven and knitted fabrics with improved hygroscopicity, rapid absorption of perspiration and soft feel as well as dimensional stability, crease resistance, durability, pleating property, etc. inherent to synthetic fibre are obtnd.

ABSTRACTED-PUB-NO: JP 52063475A

EQUIVALENT-ABSTRACTS:

TITLE-TERMS: HYGROSCOPIC SYNTHETIC FIBRE WOVEN KNIT FABRIC COMPRIZE BLEND SYNTHETIC FIBRE SPIN YARN SYNTHETIC FIBRE CRIMP FILAMENT YARN

DERWENT-CLASS: A94 F03 F04

CPI-CODES: A12-S05C; A12-S05F; A12-S05H; F01-E04; F02-A03; F02-B02;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Multipunch Codes: 010 034 035 037 04- 072 074 076 141 143 144 231 244 245 27& 28&  
481 483 484 528 529 532 533 535 540 541 542 551 560 566 664 667 688

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